Navajo Abandoned Uranium Mine

Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits, pits and waste piles. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Mine Name: **Tom Holliday**Mine ID: **517**

Navajo AUM North Central Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.039.0020

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Part I	Site Identification, Location and Status					
Site Names and ID numbers as applicable						
Mine ID:	517					
Map ID:	NC19					
CERCLIS:	NNN000909302					
Navajo Aban	doned Mine Land	Reclamati	ion Pro	gram: NA-0234		
Local name / Aliases: Rock Hat; Tom Holliday Prospect						
Chapter and	local area: Oljato					
County: San	Juan	State:	UT			
Lat/Long:	37.0187777412 N	/ -110.253	765025	W		
Nearby road	and highway: Ind	lian Route 6	5410	Local Post Office:	Oljato, AZ	
Surface Land Status: check one or more and provide ownership and contact information below						
Tribal Trust Private Bureau of La State			Public Tribal Allotm Fee lar	Fee Land ent		
Subsurface Mineral Rights:						
No information on subsurface mineral rights ownership was found in the EPA/AUM Database						
Claim and on	erator informatio	m:				

Claim and operator information:

Historical documents identified the operator of the mine in 1950 as Tom Holliday, and in 1950 as Vanadium Corporation of America. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 517

Highest gamma radiation measurement: 19,583 counts per minute (cpm)

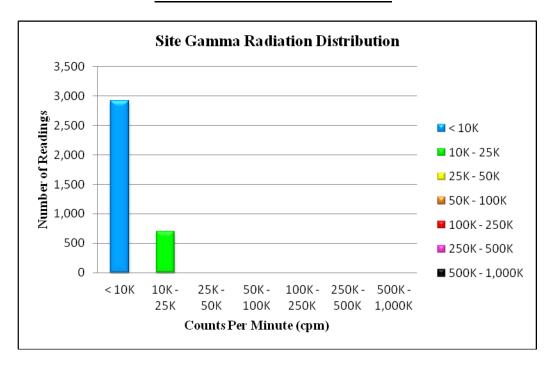
Background Average: 8,459 cpm **Two Times Background:** 16,918 cpm

Describe any other radiological measurements:

A total of 3,628 gamma radiation measurements were collected from the mine site, ranging from 4,711 cpm to 19,583 cpm. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation Statistics				
Number of Readings	3,628			
Minimum (cpm)	4,711			
Maximum (cpm)	19,583			
Mean (cpm)	8,381			
Median (cpm)	8,184			
Standard Deviation	1,935			



Part III Status of Reclamation and Mine Waste

Mine ID: 517

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0234

NAMLRP Mine features: 1 Portal

The following information was obtained from field observations collected during the 2011 site screening:

Provide description and status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all caps.

Observed reclamation work and status:

Adits:

None Observed

Waste Piles:

None Observed

Pits:

None Observed

Shafts:

None Observed

Other Debris and Mine Features:

Berm above the drainage, and exploration borings above the site

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None Observed

200 feet to 0.25 mile: None Observed

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

Levels measured around the perimeter(s) of the identified structure(s):

None

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None Observed

0.25 miles to 4 miles: 2 mi W - Water Tank (224); 2.5 mi SE - Well Filling Station (Gouldings); 3 mi SE - Reservoir (Gouldings); 3.5 mi NW - Water Tank (225); 4 mi NW - Reservoir (Oljato)

Sensitive Environments (all sensitive environments located within visible range of the mine site, including: wetlands, endangered species, habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation):

None observed

Known Site History (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Tom Holliday mine claim consists of an area of 13,221 m². The mine was identified as being operational in 1950. While operational, the mine had a total reported production volume of 12 tons. No additional historical ownership / lease information was identified in the EPA / AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity?

Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? No

Structures:

Were any structures observed within 200 feet of the mine?

No

Potential Drinking Water Sources:

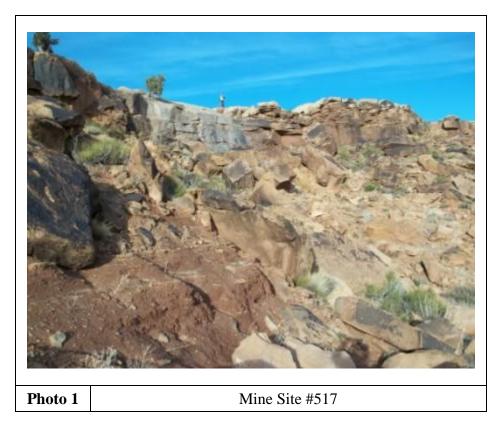
Were any potential drinking water sources observed within 4 miles of the mine? $\ensuremath{\mathrm{Yes}}$

Reclamation:

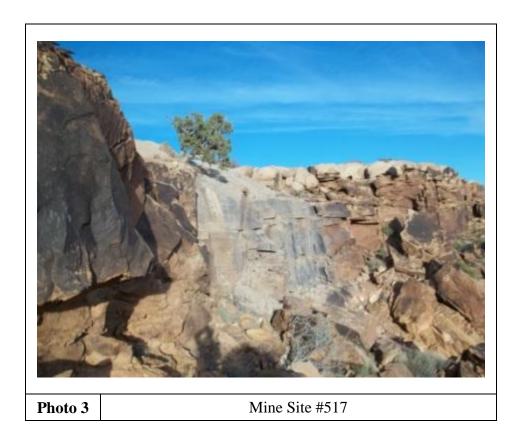
Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes

Part VI Photos

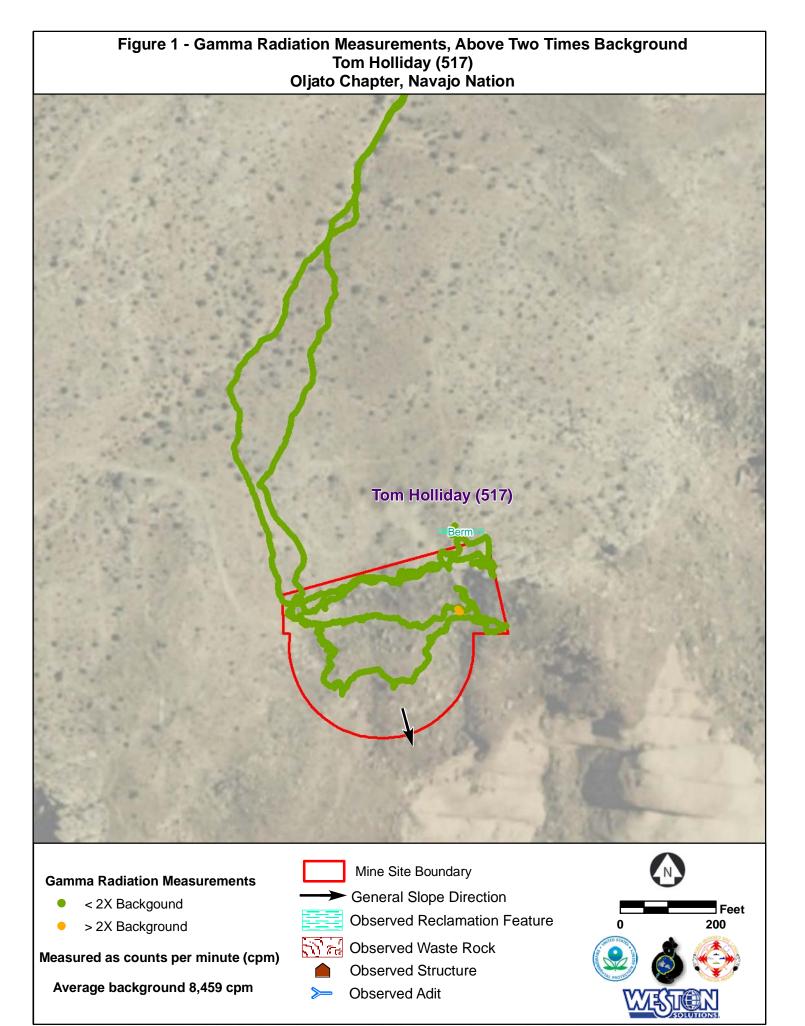


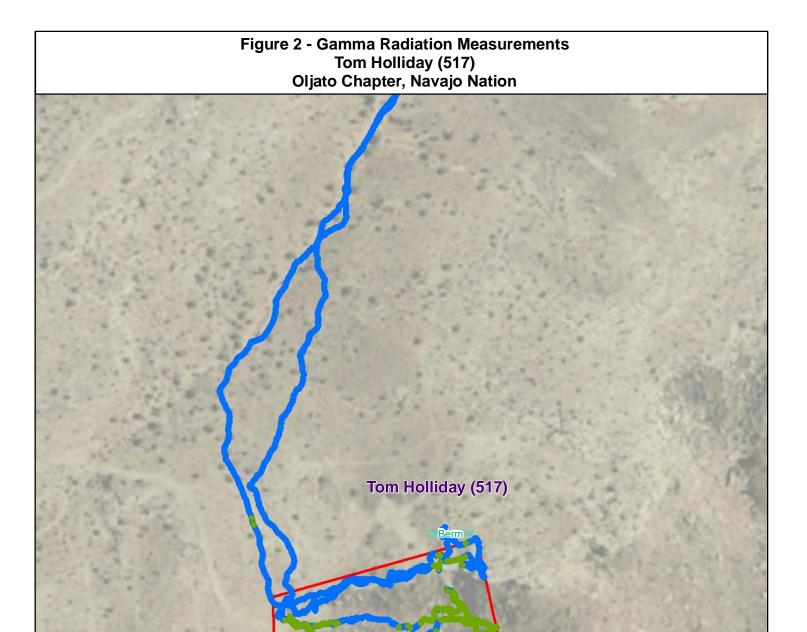




Part VII Contact Reports and Information

Name:	Eugene Esplain	
Title or official role (if any):	Navajo EPA Superfund Program	
Telephone number:	(928) 871-7331	
Address:	PO Box 2946, Window Rock, AZ 86515	
Information provided:	Lead Regulatory Agency	
Name:		
Title or official role (if any):		
Telephone number:		
Address:		
Information provided:		
Name:		
Title or official role (if any):		
Telephone number:		
Address:		
Information provided:		





Gamma Radiation Measurements

- 0 10,000 cpm
- 10,000 25,000 cpm
- 25,000 50,000 cpm
- 50,000 100,000 cpm
- 100,000 250,000 cpm
- 250,000 500,000 cpm
- 500,000 1,000,000 cpm

Mine Site Boundary

General Slope Direction

Observed Reclamation Feature

Observed Waste Rock
Observed Structure

Observed Adit

Measured as counts per minute (cpm)



Average background 8,459 cpm